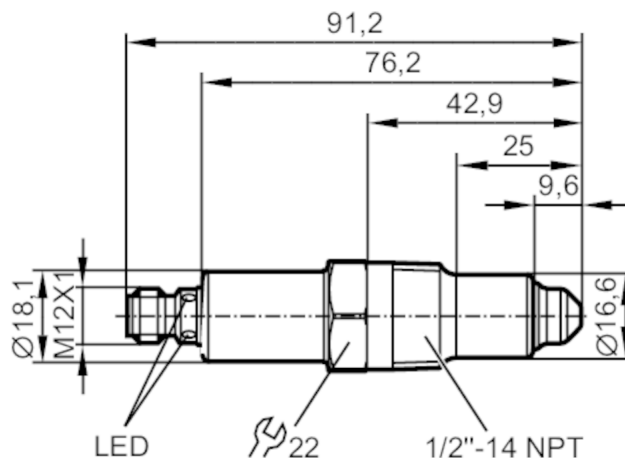


LMC510



Sensor for point level detection

LMFCE-N12E-QSKG-1/US



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2
Factory setting	oils; oil-based media
Process connection	1/2" NPT

Application

System	gold-plated contacts
Media	water; water-based media; oils; oil-based media; Coolants; powder
Cannot be used for	See the operating instructions, chapter "Function and features".
Medium temperature [°C]	-25...100
Probe length [mm]	25
Tank pressure [bar]	-1...40
MAWP (for applications according to CRN) [bar]	40

Oil

Medium temperature [°C]	-25...100
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Electrical data

Operating voltage [V]	18...30 DC
Current consumption [mA]	< 35
Protection class	III
Reverse polarity protection	yes

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 2
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LMC510



Sensor for point level detection

LMFCE-N12E-QSKG-1/US

Outputs		
Total number of outputs	2	
Output signal	switching signal; IO-Link	
Electrical design	PNP/NPN	
Number of digital outputs	2	
Output function	normally open / closed; (configurable)	
Max. voltage drop switching output DC [V]	2.5	
Permanent current rating of switching output DC [mA]	50; (100 (...60 °C))	
Short-circuit protection	yes	
Type of short-circuit protection	thermal, pulsed	
Overload protection	yes	
Measuring/setting range		
Factory setting	oils; oil-based media	
Reaction times		
Response time [s]	< 0.5	
Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9	
Profiles	Smart Sensor: Process Data Variable; Device Identification, Device Diagnosis	
SIO mode	yes	
Required master port class	A	
Process data analog	1	
Process data binary	2	
Min. process cycle time [ms]	2.3	
Supported DeviceIDs	Type of operation	DeviceID
	default	675
Operating conditions		
Ambient temperature [°C]	-25...85	
Storage temperature [°C]	-40...85	
Protection	IP 68; IP 69K; (7 days / 1 m water depth / 0.1 bar: IP 68)	
Tests / approvals		
EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	: closed tanks
	DIN EN 61000-6-4	: open tanks
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF [years]	534	
UL approval	UL approval number	H005

LMC510



Sensor for point level detection

LMFCE-N12E-QSKG-1/US

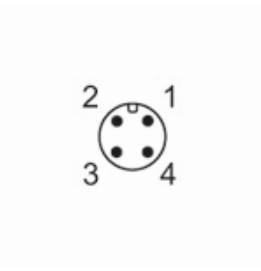
Mechanical data		
Weight	[g]	115
Dimensions	[mm]	Ø 18.11 / L = 76.2
Material		stainless steel (1.4404 / 316L); PEEK; PEI; FKM
Materials (wetted parts)		stainless steel (1.4404 / 316L); PEEK; FKM
Process connection		1/2" NPT

Displays / operating elements		
Display	Switching status	LED, yellow
	operating status	LED, green

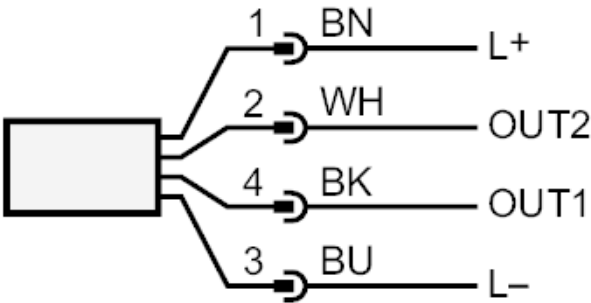
Remarks	
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; Contacts: gold-plated



Connection



- OUT1: Switching output IO-Link
- OUT2: Switching output
- Colors to DIN EN 60947-5-2
- Core colors :
- BK = black
- BN = brown
- BU = blue
- WH = white